Federated Malay States.

LONDON SCHOOL OF TROPICAL MEDICINE
NOT TO BE TAKEN AWAY.

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P.7
26-10-09

# THE MEDICAL REPORT

FOR THE

# STATE OF NEGRI SEMBILAN,

# 1908.

## RETURN OF THE STATISTICS OF POPULATION OF NEGRI SEMBILAN FOR THE YEAR 1908.

| | Europeans. | Eurasians. | Chinese. | Malays. | Indians. | Others. | Total. |
|---|---|---|---|---|---|---|---|
| Number of Inhabitants in 1907 | 1,071 | | 45,977 | 67,169 | 6,592 | 440 | 121,249 |
| ,, Births during the year 1908 | 17 | | 321 | 2,557 | 106 | 24 | 3,025 |
| ,, Deaths ,, ,, | 9 | | 2,097 | 2,174 | 1,127 | 59 | 5,466 |
| ,, Immigrants ,, ,, | 449 | | 5,357 | 1,569 | 2,063 | 27 | 9,465 |
| ,, Emigrants ,, ,, | 276 | | 6,259 | 881 | 1,148 | 40 | 8,604 |
| ,, Inhabitants on the 31st December, 1908 ... | 1,252 | | 43,299 | 68,240 | 6,486 | 392 | 119,669 |
| Increase ... ... ... | 181 | | ... | 1,071 | | | |
| Decrease ... ... ... | ... | | 2,678 | ... | 106 | 48 | 1,580 |

## METEOROLOGICAL RETURN OF SEREMBAN FOR THE YEAR 1908.

| | Temperature. | | | | | | Rainfall. | | Winds. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Solar Maximum. | Minimum on Grass. | Shade Maximum. | Shade Minimum. | Range. | Mean. | Amount in Inches. | Degree of Humidity. | General Direction. | Average Force. |
| January ... ... | 143 | ... | 85 | 71 | 14 | 78 | 5.13 | 82 | N.W. | Not recorded. |
| February ... ... | 136 | ... | 86 | 70 | 16 | 78 | 7.10 | 77 | N.W. | |
| March ... ... | 142 | ... | 87 | 70 | 17 | 78 | 5.37 | 77 | N.W. | |
| April ... ... | 141 | ... | 87 | 71 | 16 | 79 | 5.38 | 77 | N.W. | |
| May ... ... | 140 | ... | 88 | 70 | 18 | 79 | 5.17 | 82 | W. | |
| June ... ... | 142 | ... | 87 | 70 | 17 | 78 | 3.52 | 81 | S.W. | |
| July ... ... | 142 | ... | 84 | 69 | 15 | 76 | 3.20 | 82 | S.W. | |
| August ... ... | 142 | ... | 87 | 68 | 19 | 77 | 3.06 | 90 | S.W. | |
| September ... | 132 | ... | 84 | 70 | 14 | 77 | 8.65 | 85 | S.W. | |
| October ... ... | 139 | ... | 85 | 70 | 15 | 77 | 6.59 | 84 | N.W. | |
| November ... | 138 | ... | 86 | 70 | 16 | 78 | 8.71 | 86 | N.W. | |
| December ... | 142 | ... | 86 | 70 | 16 | 78 | 3.23 | 80 | N.W. | |
| Mean ... | 139 | ... | 86 | 70 | 16 | 77 | 5.42 | 81 | N.W. | |

## RETURN OF DISEASES AND DEATHS IN 1908 AT THE FOLLOWING INSTITUTIONS:—

EUROPEAN HOSPITAL, GAOL AND VAGRANTS HOSPITALS, SEREMBAN HOSPITAL, MANTIN HOSPITAL, THE DISTRICT HOSPITALS AT PORT DICKSON, TAMPIN, KUALA PILAH AND JELEBU, THE AYER KUNING HOSPITAL, AND THE BERI-BERI HOSPITAL, PORT DICKSON.

| Diseases. | *Remaining in Hospital at end of 1907. | Yearly Total. | | †Total Cases Treated. | ‡Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| **GENERAL DISEASES.** | | | | | |
| Small-pox ... ... ... ... ... | ... | 2 | 1 | 2 | |
| Chicken-pox ... ... ... ... ... | ... | 8 | ... | 8 | |
| Measles ... ... ... ... ... | | | | | |
| Typhus ... ... ... ... ... | | | | | |
| Dengue ... ... ... ... ... | | | | | |
| Influenza ... ... ... ... ... | | | | | |
| Plague ... ... ... ... ... | | | | | |
| Mumps ... ... ... ... ... | ... | 14 | ... | 14 | |
| Diphtheria ... ... ... ... ... | | | | | |
| Febricula ... ... ... ... ... | | | | | |
| Enteric Fever ... ... ... ... | ... | 8 | 2 | 8 | 2 |
| Cholera ... ... ... ... ... | | | | | |
| Dysentery ... ... ... ... ... | 60 | 1,193 | 455 | 1,253 | 48 |
| Yellow Fever ... ... ... ... ... | | | | | |
| Beri-beri ... ... ... ... ... | 182 | 1,949 | 158 | 2,131 | 168 |
| Malarial Fever— | | | | | |
| (*a*) Intermittent ... ... ... ... | 6 | 218 | ... | 224 | |
| Quotidian ... ... ... ... | | | | | |
| Tertian ... ... ... ... | 35 | 837 | ... | 872 | 14 |
| Quartan ... ... ... ... | 3 | 71 | 2 | 74 | 1 |
| Irregular ... ... ... ... | ... | 2 | ... | 2 | |
| Type undiagnosed ... ... ... | 36 | 1,535 | 46 | 1,571 | 64 |
| (*b*) Remittent ... ... ... ... | ... | 2 | 2 | 2 | |
| (*c*) Pernicious R. ... ... ... ... | ... | 265 | 108 | 265 | 6 |
| Phagedæna— | | | | | |
| (*a*) Sloughing ... ... ... ... | ... | 2 | ... | 2 | 1 |
| (*b*) Hospital gangrene ... ... ... | | | | | |
| Erysipelas ... ... ... ... ... | 1 | 22 | 2 | 23 | |
| *Carried forward* ... | 323 | 6,128 | 776 | 6,451 | 304 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | * Remaining in Hospital at end of 1907. | Yearly Total. | | † Total Cases Treated. | ‡ Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| GENERAL DISEASES—(*cont.*) | | | | | |
| *Brought forward* ... | 323 | 6,128 | 776 | 6,451 | 304 |
| Pyæmia ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Septicæmia ... ... ... ... ... | ... | 4 | 3 | 4 | |
| Tetanus ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Tubercle ... ... ... ... ... | 1 | 1 | 1 | 2 | |
| Leprosy— | | | | | |
| (*a*) Tubercular ... ... ... | 1 | 24 | 4 | 25 | 3 |
| (*b*) Anæsthetic ... ... ... | | | | | |
| Yaws (Puru) ... ... ... ... ... | ... | 2 | ... | 2 | 1 |
| Syphilis— | | | | | |
| (*a*) Primary ... ... ... ... | 1 | 32 | ... | 33 | 2 |
| (*b*) Secondary ... ... ... ... | 17 | 93 | 6 | 110 | 6 |
| (*c*) Tertiary ... ... ... ... | ... | 37 | 2 | 37 | 3 |
| (*d*) Inherited ... ... ... ... | ... | 1 | ... | 1 | |
| Gonorrhœa ... ... ... ... ... | 1 | 106 | ... | 107 | 3 |
| Hydrophobia ... ... ... ... ... | | | | | |
| Scurvy ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Alcoholism ... ... ... ... ... | ... | 2 | ... | 2 | |
| Delirium Tremens ... ... ... ... | ... | 1 | ... | 1 | |
| Rheumatic Fever ... ... ... ... | | | | | |
| Rheumatism ... ... ... ... ... | 19 | 222 | 1 | 241 | 28 |
| Gout ... ... ... ... ... ... | | | | | |
| New Growths, non-malignant ... ... | ... | 10 | ... | 10 | |
| Do. malignant ... ... ... | ... | 10 | 2 | 10 | 1 |
| Rickets ... ... ... ... ... | | | | | |
| Anæmia ... ... ... ... ... | 13 | 263 | 51 | 276 | 13 |
| Myxœdema ... ... ... ... ... | | | | | |
| Diabetes mellitus ... ... ... ... | ... | 1 | 1 | 1 | |
| Do. insipidus ... ... ... ... | | | | | |
| Debility ... ... ... ... ... | 14 | 323 | 71 | 337 | 20 |
| Other Diseases ... ... ... ... | 3 | 20 | 3 | 23 | 1 |
| *Carried forward* ... | 393 | 7,283 | 924 | 7,676 | 385 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | *Remaining in Hospital at end of 1907. | Yearly Total. | | †Total Cases Treated. | ‡Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 393 | 7,283 | 924 | 7,676 | 385 |
| LOCAL DISEASES. | | | | | |
| NERVOUS SYSTEM. | | | | | |
| Sub-Section 1— | | | | | |
| Neuritis ... ... ... ... ... | 1 | 6 | ... | 7 | |
| Meningitis ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Myelitis ... ... ... ... ... | ... | 2 | ... | 2 | |
| Hydrocephalus ... ... ... ... | | | | | |
| Encephalitis ... ... ... ... | | | | | |
| Abscess of brain ... ... ... ... | | | | | |
| Congestion of brain ... ... ... | | | | | |
| Sub-Section 2— | | | | | |
| Apoplexy ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Paralysis ... ... ... ... ... | 5 | 9 | 4 | 14 | 4 |
| Bed-sore ... ... ... ... ... | | | | | |
| Chorea ... ... ... ... ... | | | | | |
| Epilepsy ... ... ... ... ... | ... | 5 | 1 | 5 | 1 |
| Neuralgia ... ... ... ... ... | ... | 13 | ... | 13 | 1 |
| Hysteria ... ... ... ... ... | ... | 1 | ... | 1 | |
| Sub-Section 3— | | | | | |
| Idiocy ... ... ... ... ... | | | | | |
| Mania ... ... ... ... ... | ... | 2 | ... | 2 | |
| Melancholia ... ... ... ... | ... | 1 | ... | 1 | |
| Dementia ... ... ... ... ... | ... | 1 | ... | 1 | 1 |
| Delusional Insanity ... ... ... | 11 | 28 | ... | 39 | 10 |
| Other Diseases of the System ... ... | 1 | 14 | ... | 15 | 4 |
| EYE. | | | | | |
| Conjunctiva— | | | | | |
| Conjunctivitis ... ... ... ... | ... | 32 | ... | 32 | 1 |
| Cornea— | | | | | |
| Keratitis ... ... ... ... ... | ... | 14 | ... | 14 | 1 |
| Ulceration ... ... ... ... ... | 6 | 28 | ... | 34 | 3 |
| Opacity ... ... ... ... ... | ... | 4 | ... | 4 | |
| *Carried forward* ... | 417 | 7,445 | 931 | 7,862 | 411 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | *Remaining in Hospital at end of 1907. | Yearly Total. | | †Total Cases Treated. | ‡Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 417 | 7,445 | 931 | 7,862 | 411 |
| LOCAL DISEASES—(*cont.*) | | | | | |
| EYE—(*cont.*) | | | | | |
| Schlerotic— | | | | | |
| Staphyloma... ... ... ... ... | | | | | |
| Iris— | | | | | |
| Iritis ... ... ... ... ... | ... | 10 | ... | 10 | 1 |
| Glaucoma ... ... ... ... ... | | | | | |
| Hypopyon ... ... ... ... ... | | | | | |
| Lens— | | | | | |
| Cataract ... ... ... ... ... | ... | 3 | ... | 3 | 1 |
| Eyelids— | | | | | |
| Entropion ... ... ... ... ... | | | | | |
| Other Eye Diseases ... ... ... ... | 10 | 21 | ... | 31 | 1 |
| EAR. | | | | | |
| Inflammation ... ... ... ... ... | ... | 2 | ... | 2 | |
| Other Ear Diseases ... ... ... ... | ... | 5 | ... | 5 | 1 |
| NOSE. | | | | | |
| Inflammation ... ... ... ... ... | | | | | |
| Other Nose Diseases ... ... ... ... | ... | 1 | ... | 1 | |
| CIRCULATORY SYSTEM. | | | | | |
| Membranes— | | | | | |
| Pericarditis... ... ... ... ... | ... | 6 | 5 | 6 | |
| Endocarditis ... ... ... ... | | | | | |
| Valvular Diseases ... ... ... ... | 1 | 13 | 1 | 14 | 2 |
| Muscular Substance— | | | | | |
| Hypertrophy ... ... ... ... | | | | | |
| Dilatation ... ... ... ... ... | ... | 5 | 2 | 5 | 2 |
| Other Diseases of the System ... ... | ... | 8 | 2 | 8 | 1 |
| RESPIRATORY SYSTEM. | | | | | |
| Larynx— | | | | | |
| Laryngitis ... ... ... ... ... | ... | 2 | 1 | 2 | |
| *Carried forward* ... | 428 | 7,521 | 942 | 7,949 | 420 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | * Remaining in Hospital at end of 1907. | Yearly Total. | | † Total Cases Treated. | ‡ Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 428 | 7,521 | 942 | 7,949 | 420 |
| LOCAL DISEASES—(*cont.*) | | | | | |
| RESPIRATORY SYSTEM—(*cont.*) | | | | | |
| Bronchi— | | | | | |
| Bronchitis ... ... ... ... ... | 8 | 155 | 7 | 163 | 9 |
| Asthma ... ... ... ... ... | 3 | 18 | ... | 21 | |
| Lung— | | | | | |
| Congestion ... ... ... ... ... | | | | | |
| Hæmoptysis ... ... ... ... | | | | | |
| Pneumonia ... ... ... ... ... | ... | 68 | 32 | 68 | 5 |
| Gangrene ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Phthisis ... ... ... ... ... | 10 | 192 | 111 | 202 | 15 |
| Emphysema ... ... ... ... | 1 | 2 | 1 | 3 | |
| Pleura— | | | | | |
| Pleurisy ... ... ... ... ... | 1 | 21 | 5 | 22 | 1 |
| Empyema ... ... ... ... ... | ... | 2 | 1 | 2 | |
| Other Diseases of the System ... ... | | | | | |
| DIGESTIVE SYSTEM. | | | | | |
| Mouth— | | | | | |
| Stomatitis ... ... ... ... ... | ... | 6 | ... | 6 | |
| Dental Periostium— | | | | | |
| Gum-boil ... ... ... ... ... | ... | 4 | ... | 4 | 1 |
| Caries tooth ... ... ... ... | ... | 1 | ... | 1 | |
| Fauces— | | | | | |
| Tonsillitis ... ... ... ... ... | ... | 5 | ... | 5 | |
| Stomach— | | | | | |
| Gastritis ... ... ... ... ... | ... | 16 | ... | 16 | |
| Dyspepsia ... ... ... ... ... | 1 | 68 | ... | 69 | 2 |
| Intestines— | | | | | |
| Colitis ... ... ... ... ... | ... | 1 | ... | 1 | |
| Enteritis ... ... ... ... ... | ... | 2 | 2 | 2 | |
| Appendicitis ... ... ... ... | ... | 1 | ... | 1 | |
| Hernia ... ... ... ... ... | ... | 5 | ... | 5 | |
| Constipation ... ... ... ... | ... | 67 | ... | 67 | 1 |
| Diarrhœa ... ... ... ... ... | 18 | 284 | 93 | 302 | 4 |
| *Carried forward* ... | 470 | 8,440 | 1,195 | 8,910 | 458 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | * Remaining in Hospital at end of 1907. | Yearly Total. | | † Total Cases Treated. | ‡ Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 470 | 8,440 | 1,195 | 8,910 | 458 |
| LOCAL DISEASES—(*cont.*) | | | | | |
| DIGESTIVE SYSTEM—(*cont.*) | | | | | |
| Rectum and Anus— | | | | | |
| Fistula Ano ... .. ... ... | ... | 11 | ... | 11 | 1 |
| Hemorrhoids ... ... ... ... | 1 | 11 | ... | 12 | |
| Liver— | | | | | |
| Hepatitis ... ... ... ... ... | ... | 7 | ... | 7 | |
| Abscess Liver ... ... ... ... | ... | 3 | 2 | 3 | 1 |
| Cirrhosis ... ... ... ... ... | 1 | 30 | 14 | 31 | |
| Congestion Liver ... ... ... ... | | | | | |
| Jaundice ... ... ... ... ... | 1 | 9 | 2 | 10 | 1 |
| Peritoneum— | | | | | |
| Peritonitis ... ... ... ... ... | ... | 3 | 3 | 3 | |
| Ascites ... ... ... ... ... | 4 | 27 | 10 | 31 | 1 |
| Other Diseases of the System ... ... | ... | 6 | ... | 6 | |
| LYMPHATIC SYSTEM. | | | | | |
| Spleen— | | | | | |
| Rupture ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Splenitis ... ... ... ... ... | 3 | 136 | 9 | 139 | 15 |
| Bubo ... ... ... ... ... | ... | 148 | ... | 148 | 3 |
| Lymphangitis ... ... ... ... | ... | 4 | ... | 4 | |
| Elephantiasis ... ... ... ... | ... | 2 | ... | 2 | |
| Other Diseases of the System ... ... | 1 | 7 | ... | 8 | |
| URINARY SYSTEM. | | | | | |
| Kidney— | | | | | |
| Acute Nephritis ... ... ... ... | ... | 2 | 1 | 2 | |
| Bright's Disease ... ... ... ... | 6 | 105 | 29 | 111 | 23 |
| Hæmaturia ... ... ... ... ... | ... | 2 | ... | 2 | |
| Chyluria ... ... ... ... ... | | | | | |
| Bladder— | | | | | |
| Cystitis ... ... ... ... ... | ... | 4 | ... | 4 | |
| Calculus ... ... ... ... ... | | | | | |
| Other Diseases of the System ... ... | ... | 7 | ... | 7 | 1 |
| *Carried forward* ... | 487 | 8,965 | 1,266 | 9,452 | 504 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | * Remaining in Hospital at end of 1907. | Yearly Total. | | † Total Cases Treated. | †† Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 487 | 8,965 | 1,266 | 9,452 | 504 |
| LOCAL DISEASES—(*cont.*) | | | | | |
| GENERATIVE SYSTEM. | | | | | |
| Urethra— | | | | | |
| Stricture ... ... ... ... ... | ... | 6 | ... | 6 | |
| Prepuce— | | | | | |
| Phimosis ... ... ... ... ... | 1 | 18 | ... | 19 | 1 |
| Paraphimosis ... ... ... ... | ... | 2 | ... | 2 | |
| Penis— | | | | | |
| Soft Chancre ... ... ... ... | 5 | 97 | ... | 102 | 4 |
| Scrotum— | | | | | |
| Sloughing Scrotum ... ... ... | ... | 9 | 1 | 9 | 2 |
| Tunica Vaginalis— | | | | | |
| Hydrocele ... ... ... ... ... | 2 | 16 | ... | 18 | 2 |
| Testicle— | | | | | |
| Orchitis ... ... ... ... ... | 1 | 21 | ... | 22 | |
| Epididymitis ... ... ... ... | | | | | |
| Other Diseases (male) ... ... ... | ... | 3 | ... | 3 | 1 |
| Uterus— | | | | | |
| Metritis ... ... ... ... ... | | | | | |
| Uterine Displacements ... ... ... | | | | | |
| Amenorrhœa ... ... ... ... | | | | | |
| Dysmenorrhœa ... ... ... ... | ... | 2 | ... | 2 | |
| Menorrhagia ... ... ... ... | ... | 1 | ... | 1 | |
| Leucorrhœa ... ... ... ... | ... | 1 | ... | 1 | |
| Other Diseases (female) ... ... ... | ... | 7 | 1 | 7 | |
| ORGANS OF LOCOMOTION. | | | | | |
| Bones— | | | | | |
| Ostitis ... ... ... ... ... | ... | 2 | ... | 2 | |
| Periostitis ... ... ... ... ... | ... | 34 | ... | 34 | |
| Arthritis ... ... ... ... ... | | 4 | 3 | 4 | |
| Necrosis ... ... ... ... ... | 1 | 7 | ... | 8 | 2 |
| *Carried forward* ... | 497 | 9,195 | 1,271 | 9,692 | 516 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | * Remaining in Hospital at end of 1907. | Yearly Total. | | † Total Cases Treated. | ‡ Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 497 | 9,195 | 1,271 | 9,692 | 516 |
| LOCAL DISEASES—(*cont.*) | | | | | |
| ORGANS OF LOCOMOTION—(*cont.*) | | | | | |
| Joints— | | | | | |
| Sup, Bursitis ... ... ... ... | ... | 2 | 1 | 2 | |
| Synovitis ... ... ... ... ... | 1 | 16 | ... | 17 | 3 |
| Ankylosis ... ... ... ... ... | ... | 2 | ... | 2 | 1 |
| Spine— | | | | | |
| Fracture ... ... ... ... ... | ... | 1 | ... | 1 | |
| Caries Spine ... ... ... ... | ... | 1 | 1 | 1 | |
| Curvature Spine ... ... ... ... | | | | | |
| Muscles— | | | | | |
| Myalgia ... ... ... ... ... | ... | 4 | ... | 4 | |
| Other Diseases ... ... ... ... | 2 | 4 | ... | 6 | 1 |
| CONNECTIVE TISSUE. | | | | | |
| Cellulitis ... ... ... ... ... | 1 | 25 | 4 | 26 | 3 |
| Abscess ... ... ... ... ... | 12 | 197 | 4 | 209 | 20 |
| Gangrene ... ... ... ... ... | 1 | 58 | 14 | 59 | 6 |
| SKIN. | | | | | |
| Eczema ... ... ... ... ... | ... | 51 | ... | 51 | |
| Psoriasis ... ... ... ... ... | ... | 4 | ... | 4 | 1 |
| Herpes... ... ... ... ... ... | ... | 1 | ... | 1 | |
| Do. Zoster... ... ... ... ... | ... | 4 | ... | 4 | |
| Ulcer ... ... ... ... ... ... | 79 | 2,040 | 2 | 2,119 | 166 |
| Boil ... ... ... ... ... ... | ... | 4 | ... | 4 | |
| Carbuncle ... ... ... ... ... | ... | 5 | ... | 5 | 1 |
| Onychia ... ... ... ... ... | ... | 1 | ... | 1 | |
| Whitlow ... ... ... ... ... | ... | 1 | ... | 1 | |
| Other Diseases ... ... ... ... | ... | 14 | ... | 14 | |
| GENERAL INJURIES. | | | | | |
| Burns and Scalds ... ... ... ... | 1 | 16 | 2 | 17 | 1 |
| Sunstroke ... ... ... ... ... | | | | | |
| Multiple Injury ... ... ... ... | ... | 11 | 1 | 11 | |
| *Carried forward* ... | 594 | 11,657 | 1,300 | 12,251 | 719 |

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

| Diseases. | *Remaining in Hospital at end of 1907. | Yearly Total. | | †Total Cases Treated. | ‡Remaining in Hospital at end of 1908. |
|---|---|---|---|---|---|
| | | Admissions. | Deaths. | | |
| *Brought forward* ... | 594 | 11,657 | 1,300 | 12,251 | 719 |
| General Injuries—(*cont.*) | | | | | |
| Starvation ... ... ... ... ... | | | | | |
| Shock ... ... ... ... ... ... | | | | | |
| Local Injuries. | | | | | |
| Burns and Scalds ... ... ... ... | | | | | |
| Wounds ... ... ... ... ... | 9 | 261 | 1 | 270 | 21 |
| Sprains ... ... ... ... ... | 1 | 22 | ... | 23 | 3 |
| Dislocations ... ... ... ... ... | 1 | 5 | ... | 6 | 1 |
| Fractures, simple ... ... ... ... | 2 | 21 | 1 | 23 | |
| Do. compound... ... ... ... | 3 | 14 | 4 | 17 | 2 |
| Other Injuries ... ... ... ... | ... | 39 | ... | 39 | 1 |
| Malformations ... ... ... ... | | | | | |
| Poisons. | | | | | |
| Mercury ... ... ... ... ... | | | | | |
| Alcohol ... ... ... ... ... | | | | | |
| Opium ... ... ... ... ... ... ... | ... | 1 | 1 | 1 | |
| Other Poisons... ... ... ... ... | | | | | |
| Poisoned Wounds ... ... ... ... | ... | 3 | 1 | 3 | 1 |
| Parasites. | | | | | |
| Distomum Sinense ... ... ... ... | | | | | |
| Tœnia Solium... ... ... ... ... | | | | | |
| Ascaris Lumbricoides ... ... ... | ... | 28 | ... | 28 | 2 |
| Anchylostomum Duodenale... ... ... | ... | 38 | 5 | 38 | 7 |
| Oxyuris Vermicularis ... ... ... | | | | | |
| Filaria Medinensis ... ... ... ... | ... | 4 | ... | 4 | |
| Acarus Scabiei ... ... ... ... | 6 | 139 | ... | 145 | 8 |
| Tinea Circinata ... ... ... ... | ... | 11 | ... | 11 | 1 |
| Other Parasites ... ... ... ... | ... | 1 | ... | 1 | 1 |
| Under Observation ... ... ... ... | 3 | 21 | ... | 24 | 2 |
| Total ... | 619 | 12,265 | 1,313 | 12,884 | 769 |

*i.e.*, the year previous to that for which the Return is made.

†"Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡The figures in this column to be carried on to the next year's Return.

# FEDERATED MALAY STATES.

## STATE OF NEGRI SEMBILAN.

## REPORT ON THE MEDICAL DEPARTMENT FOR THE YEAR 1908.

### PUBLIC HEALTH.

1. The health of the population of the State during the year, indicated by the hospital sick-rates and general death-rates, cannot be considered satisfactory.

2. A comparison of the figures for the past three years shows that the death-rate has risen over 100 per cent. in that period.

BIRTH AND DEATH-RATE PER 1,000 LIVING.

| | Europeans and Eurasians. | | | Chinese. | | | Malays. | | | Tamils. | | | Others. | | | Total Population. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1906. | 1907. | 1908. | 1906. | 1907. | 1908. | 1906. | 1907. | 1908. | 1906. | 1907. | 1908. | 1906. | 1907. | 1908. | 1906. | 1907. | 1908. |
| Births ... | 20 | 20 | 17 | 6 | 6 | 7 | 31 | 38 | 37 | 15 | 13 | 16 | 37 | 34 | 60 | 30 | 25 | 25 |
| Deaths ... | 14 | 12 | 7 | 31 | 43 | 48 | 26 | 29 | 31 | 105 | 201 | 173 | 64 | 132 | 150 | 20 | 44 | 45 |

3. It must be noted that the figures for 1906 exclude any account of emigrants or immigrants.

4. The Malay birth-rate is high, 37, as against a death-rate of 31; this latter again shows an increase over the figures of last year.

5. The admissions to hospital during the year, per thousand of the population, were 107 as compared with 86 last year.

6. The actual number of deaths in the State for the three years was:

| | Malays. | Chinese. | Tamils. | Europeans and Eurasians. | Others. | Total. |
|---|---|---|---|---|---|---|
| 1906 ... | 1,714 | 1,470 | 709 | 13 | 29 | 3,935 |
| 1907 ... | 1,929 | 1,991 | 1,277 | 10 | 58 | 5,267 |
| 1908 ... | 2,174 | 2,097 | 1,127 | 9 | 59 | 5,466 |

7. The mortality amongst Tamils though lower than last year is still excessive.

8. There were 12,884 patients treated in all hospitals during the year, nearly 2,500 more than in 1907.

9. The subjoined return shows the numbers treated and mortality for the past five years:

| | Total treated. | Deaths. | Mortality. |
|---|---|---|---|
| 1904 ... ... | 7,162 | 571 | 7. 9 per cent. |
| 1905 ... ... | 6,924 | 553 | 7. 9 ,, |
| 1906 ... ... | 8,948 | 957 | 10. 6 ,, |
| 1907 ... ... | 10,401 | 1,346 | 12.94 ,, |
| 1908 ... ... | 12,884 | 1,313 | 10.19 ,, |

excluding those cases dying within 48 hours of admission the death-rate, 1908, is 8.53.

10. The disease causing the greatest number of admissions to hospital was, as usual, malaria, the various forms of which contributed over 23 per cent. of the total. Beri-beri and dysentery come next with, respectively, 15 per cent. and 9 per cent.

11. Dysentery and pulmonary diseases cause the most severe mortality, the case-mortality of pulmonary tuberculosis being over 50 per cent., and it must be feared that the remaining 50 per cent. of these cases are relieved only rather than cured upon discharge from hospital.

12. The mortality from beri-beri was again very low, and adds further evidence, though such is no longer necessary, to prove the immense value of the elimination of uncured rice from the dietary of beri-beries. Exclusive of cases dying within 48 hours of admission the case-mortality for this disease was only 6 per cent.

13. Table of more prevalent diseases treated with death-rate during 1907 and 1908:

| Disease. | Number treated. | | Number of deaths. | | Percentage of deaths. | |
|---|---|---|---|---|---|---|
| | 1907. | 1908. | 1907. | 1908. | 1907. | 1908. |
| Beri-beri ... ... ... ... | 1,055 | 2,131 | 68 | 158 | 6.44 | 7.41 |
| Dysentery ... ... ... ... | 1,571 | 1,253 | 633 | 455 | 40.29 | 36.31 |
| Diarrhœa ... ... ... ... | 313 | 302 | 102 | 93 | 32.58 | 30.79 |
| Malarial fever ... ... ... | 3,020 | 3,010 | 169 | 158 | 5.59 | 5.24 |
| General debility ... ... ... | 384 | 337 | 92 | 71 | 23.95 | 21.06 |
| Pulmonary diseases ... ... | 448 | 482 | 129 | 158 | 28.79 | 32.78 |
| Other diseases ... ... ... | 3,610 | 5,369 | 153 | 220 | 4.23 | 4.09 |
| Total ... | 10,401 | 12,884 | 1,346 | 1,313 | 12.94 | 10.19 |

14. The daily average number of patients in all hospitals was 773, or some 200 more than in the previous year.

The Medical Staff was very short-handed, quite inadequate to look after the large increase of patients admitted for treatment. I have made this question the subject of a special report to Government. It is of little practical use to build hospitals unless an efficient staff be provided to care for the patients received in them.

## ZYMOTIC DISEASE.

15. Two cases of small-pox were treated during the year, of these one terminated fatally.

There was no cholera or plague.

## VACCINATION.

16. Two thousand five hundred and seventy-three vaccinations were performed, 78 per cent. of these were successful.

These figures show a great falling off as compared with those of the previous year when 4,425 persons were vaccinated.

The Gurus at the Coast and Tampin districts have done practically no vaccinations at all, and unless they show a greatly increased activity in this work in the immediate future it will be necessary to re-employ regular vaccinators.

## OUT-PATIENTS.

17. Out-door treatment was afforded to 19,215 cases, a large increase over the previous years' figures as shown below:

| | Out-patients treated. |
|---|---|
| 1904 ... ... ... ... ... ... ... ... | 10,182 |
| 1905 ... ... ... ... ... ... ... ... | 12,641 |
| 1906 .. ... ... ... ... ... ... ... | 14,755 |
| 1907 ... ... ... ... ... ... ... ... | 13,937 |
| 1908 ... ... ... ... ... ... ... ... | 19,215 |

## METEOROLOGICAL.

18. The rainfall at Seremban during the year did not come up to the average, being only 65.11 inches.

The heaviest rainfall occurred in November—viz., 8.71 inches.

The driest months were June, 3.52 inches, July, 3.20 inches, and December, 3.23 inches.

19. The subjoined return of rainfall shows the driest months in the decennial period to be August, July and February.

A glance at this table shows how little reliance can for practical purposes be placed upon the recurrence of a regular dry season at any particular time of year. August is the most uniformally dry month and has an average fall of over 4.34 inches, yet in August, 1905, a fall of 9.62 inches occurred.

The average fall in July for ten years was 4.39 inches, but in July, 1904 and 1905, no less than 7.85 and 9.61 inches are recorded. The record for February show a similar irregularity.

Predictions of a periodic wet season may be made with more accuracy but these are also apt to be upset, thus, heavy falls are due in April and May and the three last months of the year, but April and May of 1904 were extremely dry, and the rains of October, 1901, November, 1906, and December, 1900, 1901 and 1908, may be said to have failed completely.

RETURN OF RAINFALL AT SEREMBAN FROM 1899 TO 1908.

| —— | 1899. | 1900. | 1901. | 1902. | 1903. | 1904. | 1905. | 1906. | 1907. | 1908. | Total. | Mean. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January ... ... | 6.33 | 5.42 | 8.19 | .35 | 4.70 | 8.91 | 9.68 | 2.01 | 2.85 | 5.13 | 53.57 | 5.35 |
| February ... ... | 7.78 | 5.79 | 3.13 | 7.15 | 1.15 | 2.21 | 2.44 | 8.56 | 2.25 | 7.10 | 47.56 | 4.75 |
| March ... ... | 8.67 | 11.63 | .89 | 5.29 | 4.79 | 5.79 | 7.78 | 7.74 | 2.25 | 5.37 | 60.20 | 6.02 |
| April ... ... ... | 8.69 | 6.65 | 13.60 | 12.05 | 7.18 | 3.72 | 11.76 | 10.84 | 11.30 | 5.38 | 91.17 | 9.11 |
| May ... ... ... | 14.01 | 7.02 | 8.26 | 12.31 | 6.48 | 2.92 | 12.92 | 13.73 | 4.20 | 5.17 | 87.02 | 8.70 |
| June ... ... ... | 2.23 | 10.00 | 5.41 | 2.86 | 6.99 | 2.30 | 5.78 | 9.42 | 1.95 | 3.52 | 50.46 | 5.04 |
| July ... ... ... | 2.66 | 4.56 | 1.95 | 1.91 | 3.67 | 7.85 | 9.61 | 4.30 | 4.25 | 3.20 | 43.96 | 4.39 |
| August ... ... | 2.17 | 4.76 | 4.26 | 4.70 | 4.87 | 3.62 | 9.62 | 3.96 | 2.38 | 3.06 | 43.40 | 4.34 |
| September ... ... | 6.83 | 7.76 | 5.16 | 3.98 | 3.11 | 7.89 | 5.45 | 5.34 | 9.10 | 8.65 | 63.27 | 6.32 |
| October ... ... | 7.72 | 10.52 | 3.23 | 13.81 | 8.70 | 11.04 | 10.94 | 9.62 | 20.66 | 6.59 | 102.83 | 10.28 |
| November ... ... | 12.49 | 9.27 | 5.13 | 9.21 | 11.53 | 7.94 | 13.57 | 3.21 | 7.18 | 8.71 | 88.24 | 8.82 |
| December ... ... | 13.09 | 3.63 | 3.72 | 10.89 | 6.71 | 6.59 | 11.06 | 16.79 | 10.67 | 3.23 | 86.38 | 8.63 |
| Total ... | 92.67 | 87.01 | 62.93 | 84.51 | 69.88 | 70.78 | 110.61 | 95.52 | 79.34 | 65.11 | 818.06 | 6.81 |

VETERINARY.

20. Mr. S. L. Symonds took up the newly-created appointment of Veterinary Surgeon on the 13th January, 1908.

Mr. Symonds reports the occurrence during the year of rinderpest, rabies, glanders and surra.

Rinderpest broke out at Mantin in May and was stamped out in July, in this period 73 cases came under observation, of these 49 died and 11 were destroyed. Two hundred and seventy cattle in the infected district were inoculated with protective serum, of these, 15 contracted the disease, 14 within 10 days and 1 subsequently.

SURRA.—Sporadic cases came under observation from time to time.

RABIES.—Six cases occurred, 3 in the Seremban District in March and 3 in the Coast District in September, in neither case could the source of infection be traced.

GLANDERS.—Two cases came under observation in the Kuala Pilah District. A buffalo census in 1907 showed 10,847 animals, a return for 1908 gives the total as 12,231.

One hundred and fifty-eight persons were prosecuted for breaches of the Quarantine and Prevention of Diseases Enactment, 131 convictions resulted and fines amounted to $1,189.

EUROPEAN HOSPITAL.

21. There were 9 cases treated during the year. This hospital has now been closed, sick Europeans being sent to Kuala Lumpur, cases of urgency are accommodated temporarily at the District Hospital, Seremban.

SEREMBAN HOSPITAL.

22. Dr. Woods remained in charge of this hospital during the year. The total number of patients treated was 5,093, the daily average in the wards being 347.

The overcrowding of the wards which obtained last year was appreciately relieved by the action of the Estate Managers who have in many cases erected hospitals on their estates.

23. The death-rate was 14.84 as against 16.8 in 1907.

24. Dysentery was the cause of 291 deaths out of a total of 756.

25. There were 28 major operations performed during the year and 64 minor operations.

26. The out-door patients numbered 5,408, being 1,371 more than in 1907.

GAOL HOSPITAL, SEREMBAN.

27. There were 292 admissions at this Institution during the year as against 300 in the previous year. The average daily number of sick was 13.

The average daily number of prisoners in the gaol was 117.

Dysentery was the cause of 62 admissions and 8 deaths, 55 cases of malarial fever were admitted but there were no deaths from this disease.

28. Forty-seven cases of beri-beri were admitted with 2 deaths. From the 1st January until the 2nd June all prisoners except those obviously affected with beri-beri were getting stale uncured rice, during that period 35 cases out of the total of 47 were admitted. Of these, 5 are noted as having beri-beri on admission to gaol.

From the 2nd June till the 15th October half the prisoners (exclusive of civil prisoners who were all kept on uncured rice) were given cured and half stale rice; during this period 10 more cases occurred, 5 out of these 10 were still getting stale rice, of the other 5 two are noted as having their knee jerks absent on admission, the other three were admitted 3, 4 and 20 days, respectively, after the substitution of cured for uncured rice in their dietary.

On the 15th October all prisoners were placed on cured rice, from that date to the end of the year two more cases occurred, both of these were suffering from beri-beri on admission to the gaol.

29. In addition to the prisoners, 48 sick vagrants were treated in the gaol hospital, 9 of these died, the causes of death being debility 5, dysentery 2, beri-beri and anæmia 1 each. Two cases proved fatal within 48 hours of admission. The State Surgeon was in charge of this hospital throughout the year.

BERI-BERI HOSPITAL, COAST.

30. The number of in-patients treated at this hospital was 1,321. There were 1,247 new admissions or 697 more than during the preceding year.

The average daily number of sick was 91.

The death-rate was 7.6 per cent.

Three hundred and sixty-nine cases of beri-beri were treated. The case-mortality of this disease was 4.3 per cent., excluding cases dying within 48 hours of admission it was only 3.2 per cent.

Dysentery was the cause of 79 admissions, 40 of these, or 50.4 per cent., died.

Dresser-in-charge, P. La Brooy.

DISTRICT HOSPITAL, PORT DICKSON.

31. This hospital was opened in February, and consists of one 12-bed ward, dispensary, quarters for staff and the usual out-buildings.

Admissions numbered 270, the death-rate was 3.7 per cent. There were 103 admissions for malarial fever with two deaths.

One thousand four hundred and fifty-five out-patients were attended to as against 2,201 in 1907.

From April to the end of the year the hospital was in charge of Apothecary Van Geyzel.

JELEBU.

32. One thousand one hundred and twenty-four in-patients were treated during the year, 157 more than in the previous year. The death-rate was 5.69 per cent.

Malarial fever accounted for 232 admissions with four deaths. One hundred and seventy-seven of these fever cases were simple tertian.

One hundred and fifty-four cases of beri-beri were treated with two deaths.

One thousand eight hundred and eighty out-patients were treated as against 1,211 in 1907.

Assistant Surgeon Kit Chong remained in charge of this hospital.

KUALA PILAH.

33. One thousand four hundred and ninety-six in-patients were treated as against 767 in the previous year, the death-rate being 6.14 per cent.

This hospital was much over-crowded and under-staffed throughout the year.

Fifty-three Malays were treated in the general wards; it is advisable that a Malay ward be put up at this hospital there being a very large native population in the district, but few of these people will come to hospital for treatment unless separate accommodation is provided for them.

Two thousand four hundred and forty-one out-patients received treatment as against 2,064 in the preceding year.

There were 244 cases of beri-beri admitted, with a mortality of 5.7 per cent., or excluding those cases dying within 48 hours of admission, a case-mortality of only 3.7 per cent.

Assistant Surgeon De Vries was in charge throughout the year.

TAMPIN.

34. A very heavy increase in the number of in-patients occurred at this hospital, 2,017 being treated as against 1,020 in 1907.

The hospital was much over-crowded and under-staffed throughout the year.

There was accommodation for 70 patients, but the average daily number in the wards was 104.

The largest number on any one day was 149, or rather more than 2 patients for each bed.

The death-rate was 6.44 per cent.

There were treated 524 cases of malarial fever with 6 deaths. One hundred and ninety-eight cases of beri-beri treated show a case-mortality of 9.09 per cent, but 6 of the 18 fatal cases died within 48 hours of admission, and exclusive of these the mortality is 6.2 per cent. 3,363 out-door patients were treated, or an increase of 631 over the figures of the previous year.

Assistant Surgeon B. N. Sen remained in charge during the year.

AYER KUNING.

35. Six hundred and eleven patients were treated in this hospital as against 243 in the previous year.

There is accommodation for 24 patients, the average daily number in the wards was 29.95, the greatest number on any one day being 51.

The death-rate for the year was 9 per cent., excluding cases dying within 48 hours it was 7.02.

One hundred and seven cases of beri-beri were treated with a mortality of 4.6 per cent.

Eight hundred and eighty-seven out-patients were treated, an increase of 44 over the figures of the previous year.

2nd Grade Dresser Hyder was in charge of this hospital.

MANTIN.

36. In-patients treated numbered 603 as against 575 for the preceding year.

The mortality was 12.93 per cent., exclusive of 24 cases which died within 48 hours after admission the mortality was 9.32 per cent.

The beri-beri death-rate was 7.54 per cent., but excluding cases dying within 48 hours, 5.76.

Many severe cases of dysentery were admitted, 36 cases with 14 deaths.

A large increase in out-patients occurred—viz., 2,773 against 849 in the preceding year.

The staff at this hospital consisted of one Dresser, 2nd Grade Dresser Kanapathi Pillay.

ESTATE HOSPITALS.

37. Several estates have hospitals for the treatment of their coolies but no returns from them are available.

S. H. R. LUCY,
*Medical Officer.*